

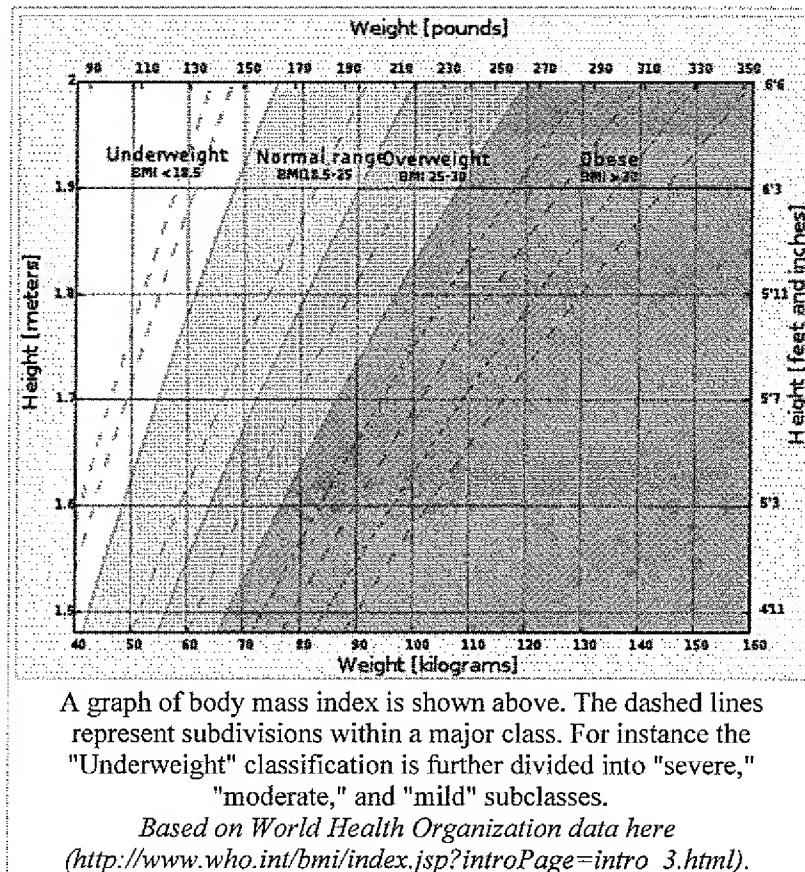
EXHIBIT A

Body mass index

From Wikipedia, the free encyclopedia

The **body mass index (BMI)**, or **Quetelet index**, is a controversial statistical measurement which compares a person's weight and height. Though it does not actually measure the percentage of body fat, it may be a useful tool to estimate a healthy body weight based on how tall a person is. Due to its ease of measurement and calculation, it is the most widely used diagnostic tool to identify weight problem within a population including: underweight, overweight and obesity. It was invented between 1830 and 1850 by the Belgian polymath Adolphe Quetelet during the course of developing "social physics".^[1] Body mass index is defined as the individual's body weight divided by the square of his or her height. The formulae universally used in medicine produce a unit of measure of kg/m^2 . BMI can also be determined using a BMI chart, which displays BMI as a function of weight (horizontal axis) and height (vertical axis) using contour lines for different values of BMI or colours for different BMI categories.

SI units	BMI
	BMI
Imperial units	BMI



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Usage

As a measure, BMI became popular during the early 1950s and 60s as obesity started to become a discernible issue in prosperous Western societies. BMI provided a simple numeric measure of a person's "fatness" or "thinness", allowing health professionals to discuss over- and under-weight problems more objectively with their patients. However, BMI has become controversial because many people, including physicians, have come to rely on its apparent numerical authority for medical diagnosis, but that was never the BMI's purpose. It is meant to be used as a simple means of classifying sedentary (physically inactive) individuals with an average body composition.^[2] For these individuals, the current value settings are as follows: a BMI of 18.5 to 25 may indicate optimal weight; a BMI lower than 18.5 suggests the person is underweight while a number above 25 may indicate the person is overweight; a BMI below 17.5 may indicate the person has anorexia nervosa or a related disorder; a number above 30 suggests the person is obese (over 40, morbidly obese).

For a given height, BMI is proportional to weight. However, for a given weight, BMI is inversely proportional to the *square* of the height. So, if all body dimensions double, and weight scales naturally with the cube of the height (as is the case with a spherical cow), then BMI doubles instead of remaining the same. This results in taller people having a reported BMI that is uncharacteristically high compared to their actual body fat levels. This anomaly is partially offset by the fact that many taller people are not just "scaled up" short people, but tend to have narrower frames in proportion to their height. It has been suggested that instead of squaring the body height (as the BMI does) or cubing the body height (as seems natural and as the Ponderal index does), it would be more appropriate to use an exponent of between 2.3 to 2.7.^[3]

BMI Prime

BMI Prime, a simple modification of the BMI system, is the ratio of actual BMI to upper limit BMI (currently defined at BMI 25). As defined, BMI Prime is also the ratio of body weight to upper body weight limit, calculated at BMI 25. Since it is the ratio of two separate BMI values, BMI Prime is a dimensionless number, without associated units. Individuals with BMI Prime < 0.74 are underweight; those between 0.74 and 0.99 have optimal weight; and those at 1.00 or greater are overweight. BMI Prime is useful clinically because individuals can tell, at a glance, by what percentage they deviate from their upper weight limits. For instance, a person with BMI 34 has a BMI Prime of $34/25 = 1.36$, and is 36% over his or her upper mass limit. In Asian populations (see International Variation section below) BMI Prime should be calculated using an upper limit BMI of 23 in the denominator instead of 25. Nonetheless, BMI Prime allows easy comparison between populations whose upper limit BMI values differ.^[4]

Categories

A frequent use of the BMI is to assess how much an individual's body weight departs from what is normal or desirable for a person of his or her height. The weight excess or deficiency may, in part, be accounted for by body fat (adipose tissue) although other factors such as muscularity also affect BMI significantly (see discussion below and overweight). The WHO^[5] regard a BMI of less than 18.5 as underweight and may indicate malnutrition, an eating disorder, or other health problems, while a BMI

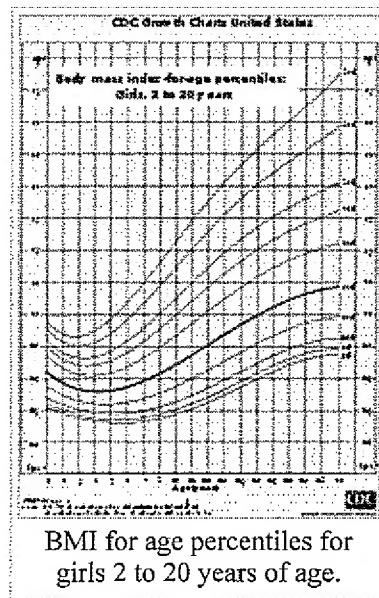
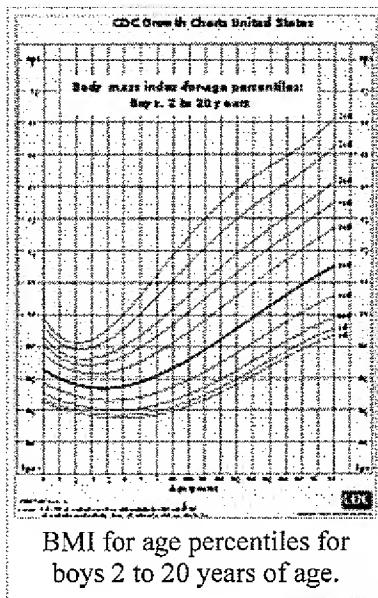
greater than 25 is considered overweight and above 30 is considered obese. These ranges of BMI values are valid only as statistical categories when applied to adults, and do not predict health.

Category	BMI range – kg/m ²	BMI Prime	Mass (weight) of a 1.8 metres (5 ft 11 in) person with this BMI
Severely underweight	less than 16.5	less than 0.66	under 53.5 kilograms (8.42 st; 118 lb)
Underweight	from 16.5 to 18.5	from 0.66 to 0.74	between 53.5 and 60 kilograms (8.42 and 9.45 st; 118 and 132 lb)
Normal	from 18.5 to 25	from 0.74 to 1.0	between 60 and 81 kilograms (9.4 and 13 st; 130 and 180 lb)
Overweight	from 25 to 30	from 1.0 to 1.2	between 81 and 97 kilograms (12.8 and 15.3 st; 180 and 210 lb)
Obese Class I	from 30 to 35	from 1.2 to 1.4	between 97 and 113 kilograms (15.3 and 17.8 st; 210 and 250 lb)
Obese Class II	from 35 to 40	from 1.4 to 1.6	between 113 and 130 kilograms (17.8 and 20.5 st; 250 and 290 lb)
Obese Class III	over 40	over 1.6	over 130 kilograms (20 st; 290 lb)

The U.S. National Health and Nutrition Examination Survey of 1994 indicates that 59% of American men and 49% of women have BMIs over 25. Morbid obesity — a BMI of 40 or more — was found in 2% of the men and 4% of the women. The newest survey in 2007 indicates a continuation of the increase in BMI, 63% of Americans are overweight, with 26% now in the obese category (a BMI of 30 or more). There are differing opinions on the threshold for being underweight in females, doctors quote anything from 18.5 to 20 as being the lowest weight, the most frequently stated being 19. A BMI nearing 15 is usually used as an indicator for starvation and the health risks involved, with a BMI <17.5 being an informal criterion for the diagnosis of anorexia nervosa.

BMI-for-age

BMI is used differently for children. It is calculated the same way as for adults, but then compared to typical values for other children of the same age. Instead of set thresholds for underweight and overweight, then, the BMI percentile allows comparison with children of the same sex and age.^[6] A BMI that is less than the 5th percentile is considered underweight and above the 95th percentile is considered obese. Children with a BMI between the 85th and 95th



percentile are considered to be overweight.

Recent studies in Britain have indicated that females between the ages 12 and 16 have a higher BMI than males of the same age by 1.0 kg/m² on average.^[7]

International variations

These recommended distinctions along the linear scale may vary from time to time and country to country, making global, longitudinal surveys problematic. In 1998, the U.S. National Institutes of Health brought U.S. definitions into line with World Health Organization guidelines, lowering the normal/overweight cut-off from BMI 27.8 to BMI 25. This had the effect of redefining approximately 30 million Americans, previously "healthy" to "overweight". It also recommends lowering the normal/overweight threshold for South East Asian body types to around BMI 23, and expects further revisions to emerge from clinical studies of different body types.

In Singapore, the BMI cut-off figures were revised in 2005 with an emphasis on health risks instead of weight. Adults whose BMI is between 18.5 and 22.9 have a low risk of developing heart disease and other health problems such as diabetes. Those with a BMI between 23 and 27.4 are at moderate risk while those with a BMI of 27.5 and above are at high risk of heart disease and other health problems.^[8]

Category	BMI range – kg/m ²
Starvation	less than 14.9
Underweight	from 15 to 18.4
Normal	from 18.5 to 22.9
Overweight	from 23 to 27.5
Obese	from 27.6 to 40
Morbidly Obese	greater than 40

Applications

Statistical device

The Body Mass Index is generally used as a means of correlation between groups related by general mass and can serve as a vague means of estimating adiposity. The duality of the Body Mass Index is that, whilst easy-to-use as a general calculation, it is limited in how accurate and pertinent the data obtained from it can be. Generally, the Index is suitable for recognising trends within sedentary or overweight individuals because there is a smaller margin for errors.^[9]

This general correlation is particularly useful for consensus data regarding obesity or various other conditions because it can be used to build a semi-accurate representation from which a solution can be stipulated, or the RDA for a group can be calculated. Similarly, this is becoming more and more pertinent to the growth of children, due to the majority of their exercise habits.^[10]

The growth of children is usually documented against a BMI-measured growth chart. Obesity trends can be calculated from the difference between the child's BMI and the BMI on the chart. However, this

method again falls prey to the obstacle of body composition: many children who primarily grow as endomorphs would be classed as obese despite body composition. Clinical professionals should take into account the child's body composition and defer to an appropriate technique such as densitometry e.g. Dual energy X-ray absorptiometry, also known as DEXA or DXA.

Clinical practice

BMI has been used by the WHO as the standard for recording obesity statistics since the early 1980s. In the United States, BMI is also used as a measure of underweight, owing to advocacy on behalf of those suffering with eating disorders, such as anorexia nervosa and bulimia nervosa.

BMI can be calculated quickly and without expensive equipment. However, BMI categories do not take into account many factors such as frame size and muscularity.^[9] The categories also fail to account for varying proportions of fat, bone, cartilage, water weight, and more.

Despite this, BMI categories are regularly regarded as a satisfactory tool for measuring whether sedentary individuals are "underweight," "overweight" or "obese" with various qualifications, such as: Individuals who are not sedentary being exempt – athletes, children, the elderly, the infirm, and individuals who are naturally endomorphic or ectomorphic (i.e., people who don't have a medium frame).

One basic problem, especially in athletes, is that muscle is denser than fat. Some professional athletes are "overweight" or "obese" according to their BMI – unless the number at which they are considered "overweight" or "obese" is adjusted upward in some modified version of the calculation. In children and the elderly, differences in bone density and, thus, in the proportion of bone to total weight can mean the number at which these people are considered *underweight* should be adjusted downward.

Medical underwriting

In the United States, where medical underwriting of private health insurance plans is widespread, most private health insurance providers will use a particular high BMI as a cut-off point in order to raise insurance rates for or deny insurance to higher-risk patients, thereby ostensibly reducing the cost of insurance coverage to all other subscribers in a 'normal' BMI range. The cutoff point is determined differently for every health insurance provider and different providers will have vastly different ranges of acceptability. Many will implement phased surcharges, in which the subscriber will pay an additional penalty, usually as a percentage of the monthly premium, for each arbitrary range of BMI points above a certain acceptable limit, up to a maximum BMI past which the individual will simply be denied admissibility regardless of price. This can be contrasted with group insurance policies which do not require medical underwriting and where insurance admissibility is guaranteed by virtue of being a member of the insured group, regardless of BMI or other risk factors that would likely render the individual inadmissible to an individual health plan.

Limitations and shortcomings

Some argue that the error in the BMI is significant and so pervasive that it is not generally useful in evaluation of health.^{[11][12]} University of Chicago political science professor Eric Oliver says BMI is an inaccurate measure of weight and that academics and doctors have taken the easy way out and that at a minimum the standards of who is over weight and who is not need to be changed and that the US population has been forced to fit into these standards.^[13]

The medical establishment has generally acknowledged some shortcomings of BMI.^[14] Because the BMI is dependent only upon weight and height, it makes simplistic assumptions about distribution of muscle and bone mass, and thus may overestimate adiposity on those with more lean body mass (e.g. athletes) while underestimating adiposity on those with less lean body mass (e.g. the elderly).

A 2005 study in America showed that overweight people actually had a lower death rate than normal weight people as defined by BMI.^[15]

In an analysis of 40 studies involving 250,000 people, heart patients with normal BMIs were at higher risk of death from cardiovascular disease than people whose BMIs put them in the "overweight" range (BMI 25–29.9).^[16] In the intermediate range of BMI (25–29.9), BMI failed to discriminate between bodyfat percentage and lean mass. The study concluded that "the accuracy of BMI in diagnosing obesity is limited, particularly for individuals in the intermediate BMI ranges, in men and in the elderly... These results may help to explain the unexpected better survival in overweight/mild obese patients."^[17] Patients who were underweight (BMI <20) or severely obese (BMI ≥35) did, however, show an increased risk of death from cardiovascular disease.

Body composition for athletes is often better calculated using measures of body fat, as determined by such techniques as skinfold measurements or underwater weighing and the limitations of manual measurement have also led to new, alternative methods to measure obesity, such as the body volume index. However, recent studies of American football linemen who undergo intensive weight training to increase their muscle mass show that they frequently suffer many of the same problems as people ordinarily considered obese, notably sleep apnea.^{[18][19]}

A further limitation relates to loss of height through aging. In this situation, BMI will increase without any corresponding increase in weight.

A study by Romero-Corral et al. found that BMI-defined obesity was present in 19.1% of men and 24.7% of women, but that obesity as measured by bodyfat percentage was present in 43.9% of men and 52.3% of women.^[20]

The exponent of 2 in the denominator of the formula for BMI is arbitrary. It is meant to reduce variability in the BMI associated only with a difference in size, rather than with differences in weight relative to one's ideal weight. If taller people were simply scaled-up versions of shorter people, the appropriate exponent would be 3, as weight would increase with the cube of height. However, on average, taller people have a slimmer build relative to their height than do shorter people, and the exponent which matches the variation best is between 2 and 3. An analysis based on data gathered in the USA suggested an exponent of 2.6 would yield the best fit for children aged 2 to 19 years old.^[21] The exponent 2 is used instead by convention and for simplicity.

As a possible alternative to BMI, the concepts fat-free mass index (FFMI) and fat mass index (FMI) were introduced in the early 1990s.^[22]

See also

- Body volume index
- Waist-hip ratio
- Sagittal Abdominal Diameter (SAD)

- Body fat percentage
- Body water
- Muscle
- Skeletal muscle
- Allometric law
- Ponderal index

Further reading

- Focus on Body Mass Index and Health Research (http://books.google.com/books?id=c5vp0_M_XgwC) at Google Book Search
- Human body size and the laws of scaling: physiological, performance, growth, longevity and ecological ramifications (<http://books.google.com/books?id=PCU0RwDI6c4C>) at Google Book Search
- Constantin V. Uglea (June 1996). *Handbook of Pediatric Obesity: Clinical Management* (http://crcpress.com/product/isbn/9781574449136;jsessionid=+A4qMmGd-PAMYI-jKbACgA**). [CRC Press]. ISBN 978-0-8247-9720-1.
http://crcpress.com/product/isbn/9781574449136;jsessionid=+A4qMmGd-PAMYI-jKbACgA**.

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External links

- U.S. National Center for Health Statistics BMI Growth Charts for children and young adults (<http://www.cdc.gov/growthcharts/>), BMI calculators for ages 2–19 (<http://apps.nccd.cdc.gov/dnpabmi/Calculator.aspx>) and ages 20 and older (http://www.cdc.gov/nccdpHP/dnpa/bmi/adult_BMI/english_bmi_calculator/bmi_calculator.htm).
- Collection of articles about the Body Mass Index (<http://www.halls.md/bmi/bibliography.htm>)
- Information on BMI and Children (http://www.chp.edu/clinical/03_weight_bmi.php) via Children's Hospital of Pittsburgh
- The Body Mass Index in pictures (<http://www.healthyweightforum.org/eng/calculators/bmi-visual-graph/>)

Retrieved from "http://en.wikipedia.org/wiki/Body_mass_index"

Categories: Body shape | Medical signs | Mass | Nutrition | Obesity

Hidden categories: All articles with unsourced statements | Articles with unsourced statements from December 2007 | Articles with unsourced statements from February 2009 | Articles with unsourced statements from April 2007 | Articles with unsourced statements from April 2008

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EXHIBIT B

Visual Fitness Planner

Overview | About Us | Locations | Outreach | Customize | Goals & Health | Health Risks | Health Age | >

Personal Information

Name: [Input Field] Body Shape: [Image Selection]

Male Female

Daily Wake-up Time: 6:30AM

Skin Color: [Color Selection] Facial Features: [Image Selection] Hair Style: [Image Selection] Hair Color: [Image Selection]

Body Statistics

Height: 5'6"

Weight: 200

Age: 35

Body Fat Percentage: 43%

Image Tuner

Muscle Adjustment: [Slider] Fat Adjustment: [Slider]

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Back Forward

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Visual Fitness Planner

< Health Risks | Health Age | Before & After | Print Out | Info_OR >

Family History	Special Conditions	Recommended Changes	BMI
<input type="checkbox"/> Diabetes <input type="checkbox"/> Heart Disease <input type="checkbox"/> Stroke <input type="checkbox"/> Cancer	<input checked="" type="checkbox"/> Not Exercising <input type="checkbox"/> Smoking <input type="checkbox"/> High Blood Pressure <input type="checkbox"/> High Cholesterol	<input checked="" type="checkbox"/> Start Exercising <input type="checkbox"/> Quit Smoking <input type="checkbox"/> Lower Blood Pressure <input type="checkbox"/> Lower Cholesterol	BMI 32.3 Projected BMI 21.5

Weight Changes

Pounds Gained ▲ Pounds Lost

67 Pounds

Before	Before	Before	Before	Before
40	35	30	25	19
Extremely High	Very High	High	Moderate	Minimal

HEALTH RISKS

Home Back Office Science LC Lifestyle Calculator SFA Back Forward

Inbox - Microsoft... 101 Reminders Screen shots... iNRA - Sched... Visual Fitness... 8:58 PM

Visual Fitness Planner

Overview | About Us | Locations | Outreach | Customize | Goals & Health | Health Risks | Health Age | >

Personal Information

Name: [Text Input]

Body Shape: [Image Selection]

Male Female

Daily Wake-up Time: 6:30 AM

Skin Color: [Color Selection]

Facial Features: [Image Selection]

Hair Style: [Image Selection]

Hair Color: [Image Selection]

Body Statistics

Height: 5'6"

Weight: 200

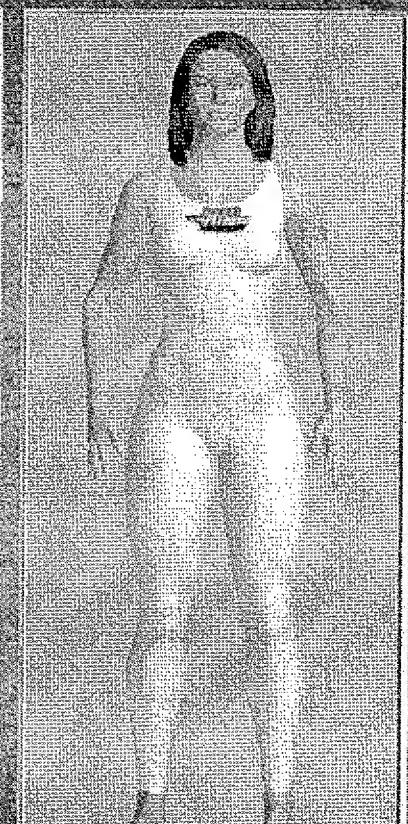
Age: 35

Body Fat Percentage: 12%

Image Tuner

Muscle Adjustment: [Image Selection]

Fat Adjustment: [Image Selection]



Home Back Office Help Science LifeStyle Calculator Screen Shots IKSA - Sched... Visual Fitness ... 9:07 PM

Family History

- Diabetes
- Heart Disease
- Stroke
- Cancer

Special Conditions

- Not Exercising
- Smoking
- High Blood Pressure
- High Cholesterol

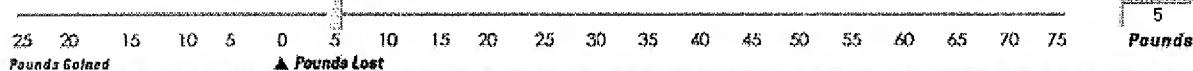
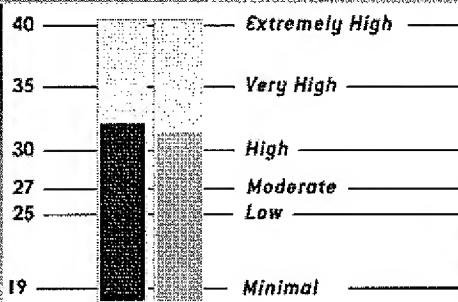
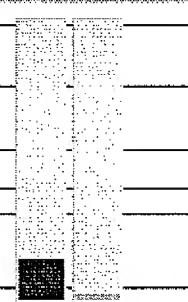
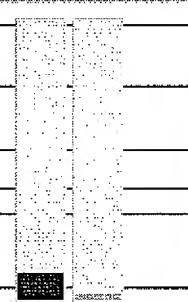
Recommended Changes

- Start Exercising
- Quit Smoking
- Lower Blood Pressure
- Lower Cholesterol

BMI

BMI

Projected BMI

Weight Changes**Before****Before****Before****Before****Before****HEALTH RISKS****Back** **Forward**

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9:03 PM